

ENHANCED ENGLISH ABSTRACT FOR DE 297 24 255U

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1 / 1 WPAT - ©Thomson Derwent

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1999-328404 [28]

**Sec. Acc. CPI :**

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**Title :**

Microcapsules with porous membrane wall - produced by removal of inert material incorporated during membrane formation and used for immobilisation of live cells

**Derwent Classes :**

A11 A12 A25 A96 B04 C06 D16 J04

**Patent Assignee :**

(ALPH-) ALPHA-BIOVERFAHRENSTECHNIK GMBH

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**Nbr of Patents :**

3

**Nbr of Countries :**

1

**Patent Number :**

DE19756499 A1 19990602 DW1999-28 B01J-013/02 9p \*

AP: 1997DE-1056499 19971218

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AP: 1997DE-1056499 19971218; 1997DE-2024255 19971218

DE19756499 C2 20030320 DW2003-23 B01J-013/02

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**Priority Details :**

1996DE-1052814 19961218

**IPC s :**

B01J-013/02 C12N-015/88

**Abstract :**

DE19756499 A

NOVELTY - Microcapsules having a membrane wall, the membrane produced by incorporating an inert material (substance or particles) into the membrane as it is formed and then removing the inert material from the formed membrane.

DETAILED DESCRIPTION -An INDEPENDENT CLAIM is also included for a production process of the microcapsules. A first membrane-forming component (I) is introduced from an outer capillary concentrically surrounding a central filling capillary, and the resulting droplet filling surrounded by (I) falls into a second membrane-forming component (II), which reacts with (I) to form the membrane; where (I) and/or (II) contains an inert material, which is removed after the membrane has formed.

USE - To immobilise live cells, especially hybridomas for monoclonal antibody production, or animal or plant cells for the purpose of introducing recombinant or wild-type viruses or DNA into the cells.

ACTIVITY - None Given.

MECHANISM OF ACTION - None Given.

ADVANTAGE - The molecular weight exclusion limit of the microcapsules can be varied by changing the type or amount of inert material used. (Dwg.0/5)

**Manual Codes :**

CPI: A12-W05 A12-W11L B04-E01 C04-E01 B04-F02 C04-F02 B04-F05 C04-F05

B04-F08 C04-F08 B04-F1100E C04-F1100E B04-G21 C04-G21 B12-M11E C12-M11E  
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